



Attorney's Docket No. 5051-603

PATENT

**Comment:** This is a Petition for Extension of Time to file the Declaration.

Regarding fee reference in this document:  
Extension within first month is "pursuant to 1.17(a)" (large/small)  
extension within second month is "pursuant to 1.17(b)" (large/small)  
extension within third month is "pursuant to 1.17(c)" (large/small)  
extension within fourth month is "pursuant to 1.17(d)" (large/small)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Misra et al.

Serial No.: 10/081,861

Group Art Unit: 2815

Filed: February 22, 2002

For: **HIGH/LOW WORK FUNCTION METAL ALLOYS FOR INTEGRATED CIRCUIT ELECTRODES**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**Declaration of Veena Misra, Ph. D. under 37 C.F.R. § 1.132**

Sir:

I, Veena Misra, Ph. D., declare as follows:


1. I am a named inventor of the above-referenced patent application U.S. Serial No. 10/081,861 (*hereinafter*, "the '861 application"), entitled "High/Low Work Function Metal Alloys For Integrated Circuit Electrodes".
2. The subject matter of the '861 application was conceived by myself and my co-inventors Huicai Zhong and Shin-Nam Hong.
3. The results from our studies of Ru-Ta alloys as gate electrodes for NMOS and PMOS devices are described the following publication:
  - Huicai Zhong, Shin-Nam Hong, You-Seok Suh, Heather Lazar, Greg Heuss, and Veena Misra, "Properties of Ru-Ta Alloys as Gate Electrodes For NMOS and PMOS Silicon Devices," *IEEE International Electron Device Meeting* (2001).
4. The studies described in this publication were conceived and carried out by myself and my co-inventors Huicai Zhong and Shin-Nam Hong, or those working under our supervision and direction, in the department of Electrical Engineering at North Carolina State University.

In re: Matthew et al.  
Serial No. 09/135,905  
Filed: 18 August 1998

5. Some of the experimental data for the studies described in the publication listed in paragraph 3 and in the '861 application was provided by You-Seok Suh, Heather Lazar, and Greg Heuss. In accordance with accepted academic practice, You-Seok Suh, Heather Lazar, and Greg Heuss were named as co-authors of the publication listed in paragraph 3 for their contributions to these studies.

7. Although You-Seok Suh, Heather Lazar, and Greg Heuss were listed as co-authors on this publication, they did not contribute to the conception of the studies described therein or to the conception of the invention of the '861 application. Thus, You-Seok Suh, Heather Lazar, and Greg Heuss were not named as co-inventors on the '861 application.

8. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

  
\_\_\_\_\_  
Veena Misra, Ph. D.

6/15/04  
\_\_\_\_\_  
Date